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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/816,661

04/02/2004

Marufa Kaniz

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EXAMINER

BAYOU, YONAS A

ART UNIT

PAPER NUMBER

2134

MAIL DATE

DELIVERY MODE

07/30/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	Application No. 10/816,661	Applicant(s) KANIZ ET AL.	
	Examiner Yonas Bayou	Art Unit 2134	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

**A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.**

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 02 April 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☒ Claim(s) 1-22 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on 02 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date <u>04/02/2004</u> . | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Claim Objections***

1. Claims 7 and 13 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Karighattam et al., Pub. No. US 2005/0213603 A1 (hereinafter Karighattam).

Referring to claim 1, Karighattam teaches a network interface system for interfacing a host system with a network to provide outgoing data from the host system to the network and to provide incoming data from the network to the host system, the network interface system comprising:

a bus interface system adapted to be coupled with a host bus in the host system and transfer data between the network interface system and the host system **[paragraph 0139, lines 5-6 and fig. 25];**

a media access control system adapted to be coupled with the network and to transfer data between the network interface system and the network **[paragraph 0141, lines 6-10 and fig. 25]**, which in turn coupled with the network];

a memory system coupled with the bus interface system and the media access control system, the memory system being adapted to store incoming and outgoing data being transferred between the network and the host system **[paragraph 0141, lines 1-5 and fig. 25];**

a security system coupled with the memory system, the security system being adapted to selectively encrypt outgoing data and to selectively decrypt incoming data **[paragraph 0141, lines 12-14 and fig. 25];** and

a descriptor management system coupled with the bus interface system and the security system, the descriptor management system being adapted to obtain initialization vector information from the host system and to provide the initialization vector information to the security system **[paragraph 0172, lines 6-10 and fig. 25,**

where SA memory interface 142 is in the security system and descriptor 192 is in the host system (fig. 28A)].

Referring to claim 2, Karighattam teaches a network interface system, wherein the security system comprises at least one transmit security processor adapted to selectively encrypt or selectively authenticate the outgoing data **[paragraph 0141, lines 12-14 and fig. 25]**.

Referring to claims 3 and 9, Karighattam teaches a network interface system, wherein the initialization vector information indicates whether the outgoing data is to undergo cipher block chaining (CBC) encryption in the security system **[paragraph 0145, lines 1-10]**.

Referring to claims 4, 5, 7, 10, 11, 13, 17 and 20, Karighattam teaches a network interface system, wherein the at least one transmit security processor selectively employs an initialization vector (IV) from the outgoing data to perform CBC encryption according to the initialization vector information from the descriptor management system **[paragraph 0225 and fig. 29E]**.

Referring to claims 6, 8, 12, 14, 18, 19, 21 and 22, Karighattam teaches a network interface system, wherein the initialization vector information indicates a length

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of an initialization vector in the outgoing data **[paragraph 0225, lines 23-27 and fig. 29E]**.

Referring to claim 15, Karighattam teaches a method of encrypting outgoing data in a network interface system, the method comprising:

providing initialization vector information from a descriptor to a security system in a network interface system **[paragraph 0172, lines 6-10 and fig. 25]**, where SA memory interface 142 is in the security system and descriptor 192 is in the host system (fig. 28A)].

selectively encrypting or authenticating outgoing data using the security system **[paragraph 0141, lines 12-14 and fig. 25]**; and

selectively employing an initialization vector (IV) from the outgoing data to perform CBC encryption or authentication of the outgoing data according to the initialization vector information **[paragraph 0225 and fig. 29E]**.

Referring to claim 16, Karighattam teaches a method of encrypting outgoing data in a network interface system, wherein providing the initialization vector information comprises:

reading a transmit descriptor from a host system **[paragraph 0172, lines 6-7, fig. 25]** and descriptor 192 is in the host system (fig. 28A)]; and

providing initialization vector information from the transmit descriptor to the security system [paragraph 0172, lines 7-10, fig. 25 and SA memory interface 142 is in the security system].

### ***Conclusion***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yonas Bayou whose telephone number is 571-272-7610. The examiner can normally be reached on m-f, 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on 571-272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Yonas Bayou

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7,23,07